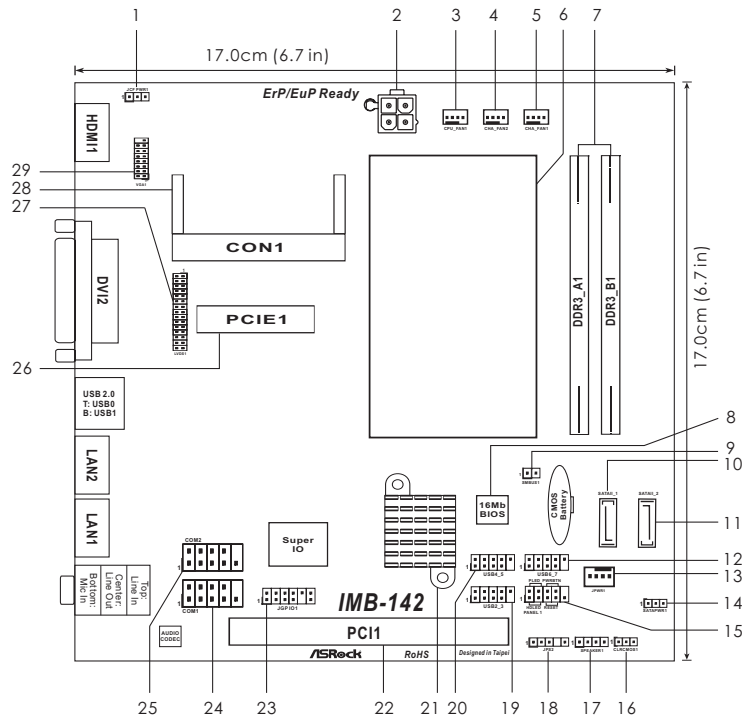


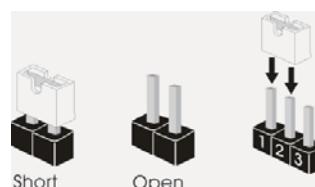
Motherboard Layout



- | | | | |
|----|-------------------------------------|----|---|
| 1 | JCF Power Connector (JCF PWR1) | 16 | Clear CMOS Jumper (CLRCMOS1) |
| 2 | ATX 12V Power Connector (ATX12V1) | 17 | Chassis Speaker Header (SPEAKER 1, White) |
| 3 | CPU Fan Connector (CPU_FAN1) | 18 | JPS Connector (JPS2) |
| 4 | Chassis Fan Connector (CHA_FAN2) | 19 | USB 2.0 Header (USB2_3, Blue) |
| 5 | Chassis Fan Connector (CHA_FAN1) | 20 | USB 2.0 Header (USB4_5, Blue) |
| 6 | CPU Heatsink | 21 | Chipset Heatsink |
| 7 | 2 x DDR3 DIMM Slots | 22 | PCI Slot (PCI1) |
| 8 | 16Mb Flash | 23 | JGP IO Connector (JGP IO1) |
| 9 | SMBUS Connector (SMBUS1) | 24 | COM Port Header (COM1) |
| 10 | SATA2 Connector (SATAII_1, Blue) | 25 | COM Port Header (COM2) |
| 11 | SATA2 Connector (SATAII_2, Red) | 26 | PCI Express x1 Slot (PCIE1, White) |
| 12 | USB 2.0 Header (USB6_7, Blue) | 27 | LVDS Connector (LVDS1) |
| 13 | JPWR Connector (JPWR1) | 28 | CON1 |
| 14 | SATA Power Connector (SATAPWR1) | 29 | VGA Header (VGA1) |
| 15 | System Panel Header (PANEL1, White) | | |

Jumpers Setup

The illustration shows how jumpers are setup. When the jumper cap is placed on pins, the jumper is "Short". If no jumper cap is placed on pins, the jumper is "Open". The illustration shows a 3-pin jumper whose pin1 and pin2 are "Short" when jumper cap is placed on these 2 pins.



Jumper	Setting	Description
Clear CMOS Jumper (CLRCMOS1) (see p.1, No. 16)	1_2 Default	2_3 Clear CMOS

Note: CLRCMOS1 allows you to clear the data in CMOS. To clear and reset the system parameters to default setup, please turn off the computer and unplug the power cord from the power supply. After waiting for 15 seconds, use a jumper cap to short pin2 and pin3 on CLRCMOS1 for 5 seconds. However, please do not clear the CMOS right after you update the BIOS. If you need to clear the CMOS when you just finish updating the BIOS, you must boot up the system first, and then shut it down before you do the clear-CMOS action. Please be noted that the password, date, time, user default profile and MAC address will be cleared only if the CMOS battery is removed.

Onboard Headers and Connectors



Onboard headers and connectors are NOT jumpers. Do NOT place jumper caps over these headers and connectors. Placing jumper caps over the headers and connectors will cause permanent damage of the motherboard!

SATAII Connectors

(SATAII_1: see p.1, No. 10)

(SATAII_2: see p.1, No. 11)

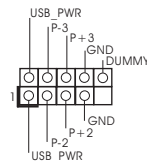


These two Serial ATAII (SATAII) connectors support SATA data cables for internal storage devices. The current SATAII interface allows up to 3.0 Gb/s data transfer rate.

USB 2.0 Headers

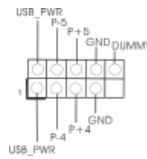
(9-pin USB2_3)

(see p.1 No. 19)



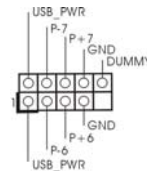
(9-pin USB4_5)

(see p.1 No. 20)



(9-pin USB6_7)

(see p.1 No. 12)

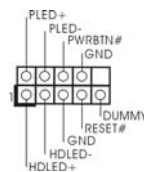


Besides two default USB 2.0 ports on the I/O panel, there are three USB 2.0 headers on this motherboard. Each USB 2.0 header can support two USB 2.0 ports.

System Panel Header

(9-pin PANEL1)

(see p.1 No. 15)



This header accommodates several system front panel functions.



Connect the power switch, reset switch and system status indicator on the chassis to this header according to the pin assignments below. Note the positive and negative pins before connecting the cables.

PWRBTN (Power Switch):

Connect to the power switch on the chassis front panel. You may configure the way to turn off your system using the power switch.

RESET (Reset Switch):

Connect to the reset switch on the chassis front panel. Press the reset switch to restart the computer if the computer freezes and fails to perform a normal restart.

PLED (System Power LED):

Connect to the power status indicator on the chassis front panel. The LED is on when the system is operating. The LED keeps blinking when the system is in S1 sleep state. The LED is off when the system is in S3/S4 sleep state or powered off (S5).

HDLED (Hard Drive Activity LED):

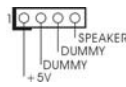
Connect to the hard drive activity LED on the chassis front panel. The LED is on when the hard drive is reading or writing data.

The front panel design may differ by chassis. A front panel module mainly consists of power switch, reset switch, power LED, hard drive activity LED, speaker and etc. When connecting your chassis front panel module to this header, make sure the wire assignments and the pin assignments are matched correctly.

Chassis Speaker Header

(4-pin SPEAKER 1)

(see p.1 No. 17)



Please connect the chassis speaker to this header.

Chassis Fan Connectors

(4-pin CHA_FAN1)

(see p.1 No. 5)



(4-pin CHA_FAN2)

(see p.1 No. 4)

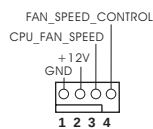


Please connect the fan cables to the fan connectors and match the black wire to the ground pin.

CPU Fan Connectors

(4-pin CPU_FAN1)

(see p.1 No. 3)



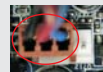
Please connect the CPU fan cable to the connector and match the black wire to the ground pin.



Though this motherboard provides 4-Pin CPU fan (Quiet Fan) support, the 3-Pin CPU fan still can work successfully even without the fan speed control function. If you plan to connect the 3-Pin CPU fan to the CPU fan connector on this motherboard, please connect it to Pin 1-3.

Pin 1-3 Connected

3-Pin Fan Installation

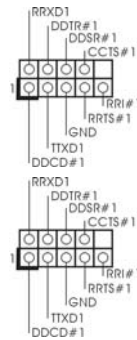


ATX 12V Power Connector
(4-pin ATX12V1)
(see p.1 No. 2)



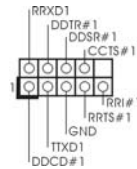
Please connect an ATX 12V power supply to this connector.

Serial port Headers
(9-pin COM1)
(see p.1 No. 24)



Each COM1 header supports a serial port module.

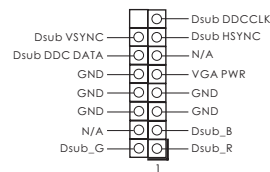
(9-pin COM2)
(see p.1 No. 25)



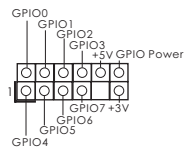
JCF Power Connector
(3-pin JCF PWR1)
(see p.1 No. 1)



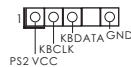
D-SUB VGA Connector
(15-pin VGA1)
(see p.1 No. 29)



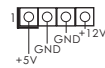
JGP IO Connector
(11-pin JGP IO1)
(see p.1 No. 23)



JPS Connector
(4-pin JPS2)
(see p.1 No. 18)



JPWR Connector
(4-pin JPWR_1)
(see p.1 No. 13)



SATA Power Connector
(3-pin SATA PWR_1)
(see p.1 No. 14)



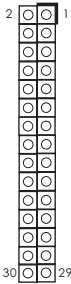
SMBUS Connector

(2-pin SMBUS1)
(see p.1 No. 9)



LVDS Connector

(30-pin LVDS1)
(see p.1 No. 27)



LVDS Connector Pin Definition	
Pin 1, 2, 3, 4 :	Backlight PWR
Pin 5, 6, 11, 17, 18, 29, 30 :	GND
Pin 7, 9 :	LCD VDD PWR Enable
Pin 8 :	LCD PID1
Pin 10 :	LCD PID0
Pin 12 :	EDID CLK
Pin 13 :	Backlight Enable
Pin 14 :	EDID DATA
Pin 15 :	Backlight PWM
Pin 16 :	EDID CS#
Pin 19 :	EDID PWR(3V)
Pin 20 :	Empty
Pin 21 :	LVDS CLK#
Pin 22 :	LVDS CLK
Pin 23 :	LVDS DATA2#
Pin 24 :	LVDS DATA2
Pin 25 :	LVDS DATA1#
Pin 26 :	LVDS DATA1
Pin 27 :	LVDS DATA0#
Pin 28 :	LVDS DATA0